

# Rangeland Health Evaluation Summary Worksheet

NM-RFO-RHA-2012-0003

## Part 1. Area of Interest Documentation

<b>Observation Date:</b> 9/13/2012	<b>Fiscal Year:</b> 2012	<b>RHA Type:</b> Grazing Unit	62086, El Yeso Ranch
<b>State:</b> New Mexico	<b>Field Office:</b> Roswell Field Office	<b>Legal Location:</b> T1S, R21E, Sec.	
<b>Watershed Name:</b>		<b>Major Land Resource Area:</b>	
<b>Geographic Work Area:</b>		<b>Ecological Range Site:</b> Loamy	
<b>Pasture Name:</b>		<b>Study Name and #:</b> -	
<b>Observer(s):</b> Helen Miller, Emily Peterson		<b>Size of Evaluation Area:</b>	<b>Photos Taken</b> <input type="checkbox"/>

## Soil/Site Verification

<b>Map Unit Name:</b> 68, Poquita very fine sandy loam, 0 to 5 percent slopes	
<b>Parent Material:</b> redbed eolian and alluvium derived from sandstone and shale	
<b>Soils Series:</b> Poquita	<b>List Diagnostic horizons in profile and depth</b>
<b>Surface Texture:</b> very fine sandy loam	<ul style="list-style-type: none"><li>• A1 - 0 - 2 in, reddish brown (5YR 5/4) very fine sandy loam, reddish brown (5YR 4/4) moist; weak medium platy structure; soft, very friable, nonsticky and slightly plastic; many very fine and fine roots; many very fine tubular pores; slightly alkaline (pH 7.6); abrupt smooth boundary. (2 to 5 inches thick)</li></ul>
<b>Depth:</b> Moderate, 20" - 40"	
<b>Topographic Position:</b> uplands	<ul style="list-style-type: none"><li>• A2 - 2 - 6 in, yellowish red (5YR 5/6) loam, yellowish red (5YR 4/6) moist; moderate medium subangular blocky structure; slightly hard, very friable, slightly sticky and slightly plastic; many very fine and fine roots; many very fine tubular pores; slightly effervescent; slightly alkaline; abrupt smooth boundary. (3 to 7 inches thick)</li></ul>
<b>Avg. Annual Precip:</b> 12.75	<b>Aspect:</b>
<b>Recent Weather:</b> Drought	<b>Elevation:</b>
<b>Soils Series Description:</b>	<ul style="list-style-type: none"><li>• Bw - 6 - 15 in, reddish yellow (5YR 6/6) clay loam, yellowish red (5YR 5/6) moist; moderate medium subangular blocky structure; hard, firm, sticky and plastic; common very fine and fine roots; many very fine tubular pores; strongly effervescent; slightly alkaline; clear smooth boundary. (5 to 18 inches thick)</li></ul>

- Bk1 - 15 - 24 in, reddish yellow (5YR 6/8) clay loam, yellowish red (5YR 5/8) moist; moderate medium subangular blocky structure; hard, firm, sticky and plastic; common very fine and fine roots; many very fine tubular pores; common fine masses of calcium carbonate; strongly effervescent; moderately alkaline; clear smooth boundary. (8 to 15 inches thick)
- Bk2 - 24 - 53 in, light red (2.5YR 6/6) clay loam, red (2.5YR 4/6) moist; massive; hard, firm, sticky and plastic; common very fine roots; many very fine tubular pores; common fine masses of calcium carbonate; strongly effervescent; slightly alkaline; clear smooth boundary. (11 to 29 inches thick)
- 2Bk3 - 53 - 60 in, light red (2.5YR 6/6) loamy fine sand, red (2.5YR 4/6) moist; massive; slightly hard, very friable, nonsticky and nonplastic; few very fine roots; many very fine pores; few fine masses of calcium carbonate; strongly effervescent; moderately alkaline.

The Poquita series consists of very deep, well drained, moderately permeable soils that formed in calcareous alluvium derived from "redbed" formations. Slopes range from 0 to 5 percent. Well drained. Permeability is moderate. Runoff is negligible on slopes less than 1 percent and very low on 1 to 5 percent slopes.

**Recent Weather Additional Notes:**

Drought last 2 years.

Pierce and Burkhardt provided the field work on this RHA.

**Wildlife and Livestock Description:**

No additional Comments

**Off Site Influence Description:**

No additional Comments

**Additional Notes:**

No additional Comments

## Part 2. Indicator Rating

		Departure from Ecological Site Description/ Ecological Reference Area(s)				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S,H	1. Rills	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Comments:</b>						
S,H	2. Water Flow Patterns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Comments:</b> <i>as expected with slight evidence of erosion</i>						
S,H	3. Pedestals and/or Terracettes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Comments:</b>						
S,H	4. Bare Ground	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Comments:</b> <i>as expected</i>						
S,H	5. Gullies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Comments:</b>						
S	6. Wind-Scoured, Blowouts, and/or Deposition Area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Comments:</b>						
H	7. Litter Movement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Comments:</b> <i>more litter due to drought</i>						
S,H,B	8. Soil Surface Resistance to Erosion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Comments:</b>						
S,H,B	9. Soils Surface Loss or Degradation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Comments:</b>						
H	10. Plant Community Composition and Distributio	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Comments:</b>						
S,H,B	11. Compaction Layer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Comments:</b>						
B	12. Functional/Structural Groups	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Comments:</b>						
B	13. Plant Mortality/Decadence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Comments:</b> <i>drought and grazing leaves little grasses</i>						

H,B	14. Litter Amount	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Comments:</b>						
B	15. Annual Production	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Comments:</b>						
B	16. Invasive Plants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Comments:</b> <i>as expected, mesquite is present</i>						
B	17. Reproductive Capability of Perennial Plants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Comments:</b>						

## Part 2. Indicator Rating

		Departure from Ecological Site Description/ Ecological Reference Area(s)				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
B	18. Wildlife Habitat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Comments:</b>						
B	19. Wildlife Populations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Comments:</b>						
B	20. Special Status Species Habitat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Comments:</b>						
B	21. Special Status Species Populations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Comments:</b> <i>mesquite invasion has caused less grass and more bare ground</i>						

## Part 3. Summary

A. Indicator Summary-Each of the indicators are associated with the one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attributes		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight	Total Attributes
S	<b>Soil/Site Stability (Indicators 1-6, 8, 9 11)</b>	0	0	0	3	6	9
H	<b>Hydrologic Function (Indicators 1-5, 7-11 14)</b>	0	0	0	5	6	11
B	<b>Biotic Integrity (Indicators 8-9, 11-21)</b>	0	0	0	3	10	13

### Part 3. Summary

B. Attribute Summary - In this table, the Extreme and Moderate to Extreme columns in the table above are merged to form the "Does Not Meet" column, Moderate becomes "May Need More Info". Slight to Moderate and None to Slight merge to form the "Meets" columns. Values from the table above are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Does Not Meet	May Need More Info.	Meets
<b>Soil/Site Stability Rationale:</b> No additional Comments	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Hydrologic Function Rationale:</b> No additional Comments	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Biotic Integrity Rationale:</b> No additional Comments	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Overall Rangeland Health Assessment:</b>	Does Not Meet	May Need More Info.	Meets
No additional Comments	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

